

Title (en)

Numerically controlled screw cutting method for fine screw surface finishing.

Title (de)

Verfahren zum numerisch gesteuerten Schraubenschneiden für genaue Oberflächenendbearbeitung der Schraube.

Title (fr)

Méthode de filetage par commande numérique pour une belle finition de surface du filet.

Publication

**EP 0431257 A2 19910612 (EN)**

Application

**EP 90114354 A 19900726**

Priority

JP 31775089 A 19891208

Abstract (en)

A screw cutting method for use with a numerically controlled machining system is improved by enabling finer finishing of the final screw surface. The invention allows the removal of scars formed during rough machining by offsetting the position of the rough machining passes in the direction of screw cutting, i.e., in the direction of movement of the tool during cutting, so that during the final finishing pass, more material is removed from the screw surface opposing the cutting direction. Surface finish is further improved by specifically controlling the cutting depth in the cutting passes just preceding the final cutting pass. <IMAGE>

IPC 1-7

**G05B 19/18**

IPC 8 full level

**B23G 1/02** (2006.01); **B23G 1/16** (2006.01); **G05B 19/18** (2006.01)

CPC (source: EP KR US)

**B23B 1/00** (2013.01 - KR); **B23G 1/00** (2013.01 - KR); **G05B 19/186** (2013.01 - EP US); **G05B 2219/49392** (2013.01 - EP US); **G05B 2219/50207** (2013.01 - EP US); **Y10T 82/10** (2015.01 - EP US); **Y10T 82/20** (2015.01 - EP US); **Y10T 82/2502** (2015.01 - EP US); **Y10T 409/300112** (2015.01 - EP US)

Cited by

EP0722580A4; CN113419486A; EP1168125A3; CN115509235A

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0431257 A2 19910612**; **EP 0431257 A3 19911030**; **EP 0431257 B1 19951004**; DE 69022820 D1 19951109; DE 69022820 T2 19960411; HK 1004904 A1 19981211; JP H03178722 A 19910802; JP H0716816 B2 19950301; KR 910011378 A 19910807; KR 930002407 B1 19930330; US 5144871 A 19920908

DOCDB simple family (application)

**EP 90114354 A 19900726**; DE 69022820 T 19900726; HK 98103593 A 19980428; JP 31775089 A 19891208; KR 900019815 A 19901204; US 58401590 A 19900918